

FUSA 18.1263  
10/799,475In the Claims:

Please amend the claims as follows:

Claims 1-11 (previously cancelled)

12. (currently amended) A radio receiver for measuring direction of a ~~receiver~~ receiver as seen from a base-station transmitter comprising:

a demodulator for receiving and demodulating first and second signals, which have been spread by mutually orthogonal spreading codes and transmitted, from antennas ~~of a base station~~ that are disposed at different ~~positions~~ points in a base station, or receiving and demodulating first and second signal transmitted by time sharing from antennas of a base station that are disposed at different positions a distance between said antennas being D;

a phase-difference calculation unit for calculating a phase difference between the first and second signals transmitted from respective ones of the antennas; and

a direction calculation unit for calculating direction of the receiver, ~~as seen from the base station, based upon the phase difference as an angle which the vertical direction serving as a reference forms with a direction of a straight line connecting said antennas, said direction calculation using the calculated phase difference and said distance D.~~

13. (currently amended) The ~~apparatus~~ radio receiver according to claim 12, wherein the receiver obtains a path among multipaths along which a signal arrives earliest and calculates the phase difference between the first and second signals that arrive via this path.

Claims 14-17 (previously cancelled)

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18. (new) A radio receiver for measuring direction of a receiver comprising:

a demodulator for receiving and demodulating first and second signals transmitted by time sharing from antennas that are disposed at different points in a base station, a distance between said antennas being D;

a phase-different calculation unit for calculating a phase difference between the first and second signals transmitted from respective ones of the antennas; and

a direction calculation unit for calculating direction of the receiver as an angle which a vertical direction serving as a reference forms with a direction of a straight line connecting said antennas, said direction calculation using the calculated phase difference and said distance D.

19. (new) The radio receiver according to claim 18, wherein the receiver obtains a path among multipaths along which a signal arrives earliest and calculates the phase difference between the first and second signals that arrive via this path.